AMENDMENTS TO THE CLAIMS:

Please amend claims 2 and 15 as follows.

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (cancelled).
- 2. (currently amended) A fibre-optic surveillance system including:
 - a fibre-optic sensor array comprising:

at least two fibre-optic point sensors; and

a distributed fibre-optic sensor linking said at least two fibre-optic point sensors, wherein said sensor array provides an array output of sensed data from said at least two fibre-optic point sensors and said distributed fibre-optic sensor; and

an interferometric interrogation system, responsive to <u>an output phase shift in at</u>

<u>least one of said sensors said sensord data output from said array</u> indicative of a force applied to

<u>said</u> at least one of said sensors, for establishing a position at which said force is applied.

- 3. (original) A fibre-optic surveillance system according to claim 2 wherein the fibre-optic sensor array is connected to the interrogation system by a fibre-optic cable.
- 4. (original) A fibre-optic surveillance system according to claim 2 wherein the fibre-optic sensor array is connected to the interrogation system by a transducer and a wire cable.

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5. (previously presented) A fibre-optic surveillance system according to claim 2 wherein

each of the fibre-optic point sensors comprises optical fibre wound into a flexural disc.

6. (previously presented) A fibre-optic surveillance system according to claim 2 wherein

the fibre-optic point sensors are geophones.

7. (previously presented) A fibre-optic surveillance system according to claim 2 wherein

each fibre-optic point sensor comprises a fibre-optic accelerometer.

8. (previously presented) A fibre-optic surveillance system according to claim 2 wherein

the distributed fibre-optic sensor comprises optical fibre packages within a cable to measure one

of pressure on the cable and bend of the cable.

9. (cancelled).

10. (previously presented) The system of claim 2 wherein the interferometric

interrogation system comprises a reflectometric interferometric interrogation system.

11. (original) The system of claim 10 wherein the reflectometric interferometric

interrogation system comprises a pulsed reflectometric interferometric interrogation system.

12. (original) The system of claim 11 wherein the pulsed reflectometric interferometric

interrogation system employs time-division multiplexing to distinguish individual sensors.

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- 13. (original) The system of claim 2 wherein the interrogation system comprises a Rayleigh-backscatter interrogation system.
- 14. (original) The system of claim 13 wherein the Rayleigh-backscatter interrogation system comprises a pulsed Rayleigh-backscatter interrogation system.
- 15. (currently amended) A method of establishing the position at which an object moving on a surface crosses a path of fixed length, wherein said method comprises the steps of:
- (i) positioning the fibre-optic sensor array of a surveillance system adjacent said path, said surveillance system including:
 - a fibre-optic sensor array comprising:
 - at least two fibre-optic point sensors; and
- a distributed fibre-optic sensor linking said at least two fibre-optic point sensors, wherein said sensor array provides an array output of sensed data from said at least two fibre-optic point sensors and said distributed fibre-optic sensor; and

an interferometric interrogation system, responsive to <u>an output phase shift in at</u>

<u>least one of said sensors said sensed data output from said array</u> indicative of a force applied to

<u>said</u> at least one of said sensors, for establishing a position at which said force is applied; and

(ii) analysing optical signals received from the sensor array using the interferometric interrogation system of said surveillance system to establish the position of the object crossing the path.

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16. (previously presented) A method according to claim 15, wherein the optical signals are analysed by measuring the delay between signals received from adjacent said at least two fibre-optic point sensors along the array and combining these signals with a signal from the distributed fibre-optic array linking said at least two fibre-optic point sensors to locate and confirm said position.